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TITLE : DRAINAGE TREATMENT METHOD

ABSTRACT : PURPOSE: To accelerate the separation of coagulated precipitate and to treat drainage efficiently by adjusting the pH of drainage in which hydrogen peroxide is decomposed previously at pH of a specified value or below to conduct coagulation-precipitation treatment.

CONSTITUTION: In drainage etc., from a plating plant, high concentration of metals such as iron, nickel, chromium, and copper are dissolved together with hydrogen peroxide. In the treatment of drainage containing such metals and hydrogen peroxide, pH is adjusted at 7 or below in a previous stage to decompose hydrogen peroxide. As a method for decomposing the hydrogen peroxide, there are a method by activated carbon, a method by a metallic catalyst such as manganese dioxide, and a method by catalase. After the hydrogen peroxide being decomposed, the pH of drainage is adjusted at 7-12, preferably 8-12 for coagulation-precipitation treatment. In this process, an inorganic coagulant such as ferrous sulfate and aluminum sulfate, or another polymer coagulant is further added to accelerate the coagulation-precipitation.

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